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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/617,239	07/10/2003	Masahiro Ohgami	A35901 074224.0114	2852
2.005	7590 01/30/2007 TTS I I P	10/2003 Masahiro Ohgami 01/30/2007 0. AZA -4498 FRESPONSE MAIL DATE	EXAMINER	
BAKER & BOTTS L.L.P. 30 ROCKEFELLER PLAZA 44TH FLOOR NEW YORK, NY 10112-4498			SMITH, NICHOLAS A	
			ART UNIT	PAPER NUMBER
11DW TORK,			1742	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	01/30/2007 PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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		Application No.	Applicant(s)
		10/617,239	OHGAMI ET AL.
	Office Action Summary	Examiner	Art Unit
		Nicholas A. Smith	1742
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address
A SH WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Opened for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)⊠	Responsive to communication(s) filed on <u>15 No.</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under Expression 1.5 No.	action is non-final.	
Dispositi	ion of Claims		
5)□ 6)⊠ 7)□	Claim(s) 1,2,4 and 5 is/are pending in the apple 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1,2,4 and 5 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	vn from consideration.	
Applicati	ion Papers		
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) according a confident may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected tö. See 37 CFR 1.121(d).
Priority u	ınder 35 U.S.C. § 119		
12)⊠ a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document: application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
2) Notice 3) Information	ot(s) Dee of References Cited (PTO-892) Dee of Draftsperson's Patent Drawing Review (PTO-948) The mation Disclosure Statement(s) (PTO/SB/08) The No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

Status of Claims

1. Claims 1, 2 and 4-5 remain for examination.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. The previous rejection of claim 1 in regards to the term "low yield ratio" is withdrawn in view of the amendment "of 71% to 88%" on 15 November 2006.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 2 and 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent 11-012684.
 - 6. JP'684 is applied to the claims for the same reasons as stated in p. 3 of the previous office action.
- 7. In regards to amended feature "consisting essentially of," this limits the scope of a claim to the specified materials or steps "and those that do not materially affect the basic and novel characteristic(s)" of the claimed invention. In re Herz, 537 F.2d 549, 551-52, 190 USPQ 461, 463 (CCPA 1976). If an Applicant contends that additional

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steps or materials in the prior art are excluded by the recitation of "consisting essentially of," applicant has the burden of showing that the introduction of additional steps or components would materially change the characteristics of applicant's invention. In re De Lajarte, 337 F.2d 870, 143 USPQ 256 (CCPA 1964). It is noted that Applicant has data for a comparative example (J-1, Table 1) that contains Vanadium (V) at 0.984 wt% of which results in a steel with yield ratio (YR) of 91% that is outside the claimed range. However, Examiner notes that inventive steels F-1 and G-1 contain V at 0.303 wt% and 0.215 wt%, respectively. Therefore, it is not clear that an amount of V in prior art range (0%<V≤1.5%, p. 2 of translation of JP'684) would necessarily materially affect the basic and novel characteristic of the claimed invention.

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8. In regards to amended feature "low yield ratio of 71% to 88%," JP'684 teaches a steel alloy with the same composition and same microstructural limitations as the instantly claimed invention. Therefore, one of ordinary skill in the art would expect them to have the same properties, such as low yield ratio. The claiming of a new use, new function or unknown property which is inherently present in the prior art does not necessarily make the claim patentable. In re Best, 562 F.2d 1252, 1254, 195 USPQ 430, 433 (CCPA 1977). See MPEP 2112 I.

Response to Arguments

9. Applicant's arguments filed 15 November 2006 have been fully considered but they are not persuasive. In regards to Applicant's argument that V causes a high yield ratio and therefore prior art does not anticipate the claimed invention, please see paragraph 7 above. In regards to Applicant's argument that the claimed ferrite grain

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size is critical as demonstrated by examples in Tables 2 and 4, Examiner finds that criticality of ferrite grain size is not established because the data comparisons involve several other variable changes, such as composition of constituents, spheroidization, and average grain size of cementite/pearlite. In regards to Applicant's argument that the claimed pearlite grain size is critical as demonstrated by example H-1 in Table 2, particularly because H-1 meets the prior art composition and microstructure ranges while outside the instantly claimed pearlite average grain size range and resulting in high YR, Examiner finds that criticality of pearlite grain size is not established because no data comparison can be established directly between H-1 and an inventive example wherein the composition of constituents and average grain size of ferrite are substantially similar to H-1.

Conclusion

- 10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 11. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas A. Smith whose telephone number is (571)-272-8760. The examiner can normally be reached on 8:30 AM to 5:00 PM, Monday through Friday.
- 13. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571)-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 14. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HOY KING
SUPERVISORY PATENT EXAMINER

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